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Title:EP0838737A1: Means for identifying a manual action on a surface, in particular for a time piece[German][French]

Derwent Title: System for identification of a manual action on a touch sensitive surface - comprises assembly of detectors each capable of activation by the finger, etc. [Derwent Record]

Country:EP European Patent Office (EPO)

Kind:A1 Publ. of Application with search report <sup>i</sup> (See also: EP0838737B1 )

Inventor:Terés, Yvan; Vuillème, Hugues; Grupp, Joachim;

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Corporate Tree data: Swatch Group AG (The) ( SWATCH ); Asulab S.A. ( ASULAB )  
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Published / Filed:1998-04-29 / 1997-10-20

Application Number:EP1997000118168

IPC Code:Advanced: G04C 3/00; G04G 1/10; G06F 3/041; G06F 3/048; Core: G04G 1/00; more...  
IPC-7: G04G 1/00;

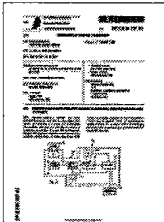
ECLA Code:G04G1/10;

Priority Number:1996-10-25 FR1996000013061

Abstract: System for identification of a manual action on a touch sensitive surface The device for detection of a finger pressed on a surface, which is comprised of an assembly of detectors (41), each being capable of activation by the said finger which causes a change in an electric quantity of the detectors (41). The detectors are laid out together so that they correspond to surface zones. Detection means (42) are provided to determine which detector (41) amongst an array of detectors which are simultaneously activated has the greatest variation in electrical quantity. Means for conversion of the electrical quantity of the detectors to a signal the frequency of which is proportional to the input electrical quantity. [French]

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Designated Country: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE



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U.S. Patent Application  
No. 10/537, 819

| PDF | Publication | Pub. Date  | Filed      | Title  |
|-----|-------------|------------|------------|--|
|     | US6184871B1 | 2001-02-06 |            |  |
|     | US6184871   | 2001-02-06 | 1997-10-17 | Identification device of a manual action on a surface, in particular for a timeplace |

|                                     |                     |            |            |  |
|-------------------------------------|---------------------|------------|------------|--|
| <input checked="" type="checkbox"/> | <u>SG0071049A1</u>  | 2000-03-21 | 1997-10-02 | Identification device of a manual action on a surface in particular for a timepiece                      |
| <input checked="" type="checkbox"/> | <u>JP10132968A2</u> | 1998-05-22 | 1997-10-23 | IDENTIFYING DEVICE OF MANUAL OPERATION TO SURFACE, PARTICULARLY, FOR WATCH                               |
| <input checked="" type="checkbox"/> | <u>HK1010927A1</u>  | 2005-04-29 | 1998-11-10 | Identification device of a manual action on a surface, in particular for a timepiece.                    |
| <input checked="" type="checkbox"/> | <u>FR2755269B1</u>  | 1998-12-04 | 1996-10-25 | DISPOSITIF D'IDENTIFICATION D'UNE ACTION MANUELLE SUR UNE SURFACE, NOTAMMENT POUR UNE PIECE D'HORLOGERIE |
| <input checked="" type="checkbox"/> | <u>FR2755269A1</u>  | 1998-04-30 | 1996-10-25 | DISPOSITIF D'IDENTIFICATION D'UNE ACTION MANUELLE SUR UNE SURFACE, NOTAMMENT POUR UNE PIECE D'HORLOGERIE |
| <input type="checkbox"/>            | <u>EP0838737B1</u>  | 2002-01-09 | 1997-10-20 | Means for identifying a manual action on a surface, in particular for a time piece                       |
| <input type="checkbox"/>            | <u>EP0838737A1</u>  | 1998-04-29 | 1997-10-20 | Means for identifying a manual action on a surface, in particular for a time piece                       |
| <input checked="" type="checkbox"/> | <u>DE69709522T2</u> | 2002-08-22 | 1997-10-20 | Vorrichtung zur Erkennung einer Handbewegung auf einer Oberfläche, insbesondere für ein Uhrwerk          |
|                                     | <u>DE69709522C0</u> | 2002-02-14 | 1997-10-20 | Vorrichtung zur Erkennung einer Handbewegung auf einer Oberfläche, insbesondere für ein Uhrwerk          |
| <input checked="" type="checkbox"/> | <u>CN1181561A</u>   | 1998-05-13 | 1997-10-24 | Identification device of manual action on surface, in particular for timepiece                           |
| <input checked="" type="checkbox"/> | <u>CN1160656C</u>   | 2004-08-04 | 1997-10-24 | Identification device of manual action on surface, in particular for timepiece                           |
| 13 family members shown above       |                     |            |            |  |

First Claim:  
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1. Dispositif destiné à identifier une action manuelle faite par un doigt (32) sur une surface, comprenant :

- un ensemble de capteurs (41) susceptibles d'être activés chacun par ledit doigt (32) de manière à engendrer une variation d'une quantité électrique, ces capteurs étant agencés respectivement à l'intérieur d'un ensemble correspondant de zones déterminées de ladite surface; caractérisé en ce que ledit dispositif comprend en outre
- des premiers moyens (42) de détection, parmi un sous-ensemble desdits capteurs (41) qui sont activés simultanément, du capteur activé présentant la plus grande variation de ladite quantité électrique.



Description

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La présente invention concerne un dispositif d'identification d'une action manuelle faite par un doigt sur une surface et, plus particulièrement, elle concerne un tel dispositif comportant un ensemble de capteurs susceptibles d'être activés chacun par le doigt d'un utilisateur de manière à engendrer une variation d'une quantité électrique. Un tel dispositif peut être utilisé dans des applications horlogères, telle qu'une montre-bracelet comprenant un dispositif de reconnaissance de caractères tracés à la main sur le verre de la montre. On comprendra toutefois que l'invention n'est pas limitée à cette application.

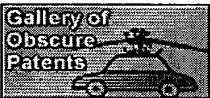
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| PDF   | Patent                    | Pub.Date   | Inventor                 | Assignee       | Title  |
|---|---------------------------|------------|--------------------------|----------------|--|
|    | <a href="#">US7286063</a> | 2007-10-23 | Gauthey;<br>Darryl       | Asulab<br>S.A. | <a href="#">Method of input of a security code by means of a touch screen for access to a function, an apparatus or a given location, and device for implementing the same</a> |
|  | <a href="#">US6882596</a> | 2005-04-19 | Guanter;<br>Jean-Charles | Asulab<br>S.A. | <a href="#">Manual control device for executing functions of an electronic watch</a>   |

Other Abstract  
Info:

[DERABS G98-288483](#) [DERG98-288483](#)



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